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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/037,258	10/23/2001	Ning Lei	D-4840-CIP	6192
26572	7590 09/10/2004		EXA	
INTERNAT	TIONAL TRUCK AN	MILLER, CA	MILLER, CARL STUART	
P.O. BOX 14			ART UNIT	PAPER NUMBER
WARRENVI	ILLE, IL 60555		3747	

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				ΛΛ		
		Application No.	Applicant(s)			
		10/037,258	LEI, NING			
	Office Action Summary	Examiner	Art Unit	1		
		Carl S. Miller	3747	·		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence ad	dress		
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timel the mailing date of this co ED (35 U.S.C. § 133).			
Status						
1)[🔀]	Responsive to communication(s) filed on 4/1	9/04				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
4)🛛	Claim(s) 1-14 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-14</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.		•		
Applicati	ion Papers					
` 9)□	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).		
11)[The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	O-152.		
Priority ι	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents)-(d) or (f).			
	2. Certified copies of the priority documents	• •				
	3. Copies of the certified copies of the prior application from the International Bureau	-	ed in this National	Stage		
* 5	See the attached detailed Office action for a list	` ' ''	ed.			
A 44 - •	w.,					
Attachmen	t(s) e of References Cited (PTO-892)	A) 🔲 lata-da C	· (DTO 442)			
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r.No(s)/Mail Date	5) Notice of Informal F)-152)		
C Data - L 4 T	1-1-1-06					

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Drummond.

In particular, Miller and Drummond apply as per the last office action's rejection of Claims 15-17.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miller and Drummond as applied with regard to Claims 1-5 above and further in view of Ishida.

Ishida specifically teaches the use of a dual control including main and pilot injections thereby making this an obvious way to control the chamber of Miller as well.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 1-4, 7, 9, 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida.

Ishida applies as per the last office action.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida. Ishida applies as per the last office action.

Claim 6 and 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida in view of Nishimura.

Ishida and Nishimura apply as per the last office action.

Applicant's arguments filed April 19, 2004 have been fully considered but they are not persuasive.

In particular, applicant's only argument is that Miller and Ishida control both the inlet and vent with a valve and that applicant does not. The amended independent claims say nothing about this limitation. Ishida <u>does</u> have an inlet orifice at the inlet check valve and an outlet orifice at the throttle. While it is true that both flows are controlled by the valve, the claims do not exclude this feature.

Drummond, of course, does have an outlet that is always open.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl S. Miller whose telephone number is 308-2653. The examiner can normally be reached on MTWTHF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached at 703-308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carl S. Miller Primary Examiner